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'APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,494 08/19/2003		08/19/2003	Alkinoos Hector Vayanos	020688 7416	
23696	7590	04/19/2005		EXAMINER	
Qualcomm	Incorpor	ated	ORGAD, EDAN		
Patents Dep	-				
5775 Morehouse Drive				ART UNIT	PAPER NUMBER
San Diego, CA 92121-1714				2684	

DATE MAILED: 04/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/644,494	VAYANOS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Edan Orgad	2684					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	ely filed s will be considered timely, the mailing date of this communication. O (35 U.S.C. § 133).					
Status	•						
1) Responsive to communication(s) filed on 19 A	<u>ugust 2003</u> .						
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
, , , , , , , , , , , , , , , , , , , ,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-27 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-27 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 19 August 2003 is/are:  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a) accepted or b) objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No d in this National Stage					
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	4) Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/15/04, 6/28/04.		atent Application (PTO-152)					

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Kim et al. (Kim, European Patent Application EP 1,199,834).

Regarding claims 1 and 12, Kim teaches of a method and apparatus of communications, comprising: transmitting a first signal to a remote location at a first energy level (Figures 1 -3; tables 1 and 2; and paragraphs 0022 -0026); determining a target transmission energy level as a function of a target quality parameter at the remote location (Figures 1 -3; tables 1 and 2 and paragraphs 0027-0034); computing a second energy level as a function of the target transmission energy level and the first energy level (Figures 1 -3; tables 1 and 2 and paragraphs 0027 - 0034); and transmitting a second signal to the remote location at the second energy level (Figures 1 -3; tables 1 and 2 and paragraphs 0027 - 0034).

Regarding claims 2 and 13, Kim teaches all the claimed limitations as recited in claims 1 and 12. Kim further teaches of wherein the determination of the target transmission energy level is a function of the first and second signals (Figures 1 -3; tables 1 and 2 and paragraphs 0027 - 0042).

Regarding claims 3 and 14, Kim teaches all the claimed limitations as recited in claimed limitations as recited in claims 2 and 12. Kim further teaches of wherein the first and second

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signals each comprises a plurality of symbols (paragraphs 0035 - 0042), and wherein the determination of the target transmission energy level is a function of the total number of symbols in the first and second signals (paragraphs 0035 - 0042).

Regarding claims 4 and 15, Kim teaches all the claimed limitations as recited in claims 1 and 12. Kim further teaches of wherein the second energy level is further adjusted as a function of expected losses at the remote location related to decoding the first and second signals jointly (Figures 1 -3; tables 1 and 2 and paragraphs 0035 - 0042).

Regarding claims 5 and 16, Kim teaches all the claimed limitations as recited in claims 1 and 12. Kim further teaches of wherein the second energy level is further adjusted as a function of expected losses at the remote location relating to de-mapping the second signal (Figures 1 -3; tables 1 and 2 and paragraphs 0035 - 0042).

Regarding claims 6 and 17, Kim teaches all the claimed limitations as recited in claims 1 and 12. Kim further teaches of wherein the first signal comprises a first subpacket from a data packet (Figures 1 -3; tables 1 and 2 and paragraphs 0023 -0034), and the second signal comprises a second subpacket from the same data packet (Figures 1 -3; tables 1 and 2 and paragraphs 0023 -0034), and wherein the determination of the target transmission energy level is a function of a coding rate of the combined first and second subpackets (Figures 1 -3; tables 1 and 2 and paragraphs 0023 -0034).

Regarding claims 7 and 18, Kim teaches all the claimed limitations as recited in claims 1 and 12. Kim further teaches of wherein the first signal is transmitted at a first coding rate (Figures 1 -3; tables 1 and 2 and paragraphs 0023 -0034), and the second signal is transmitted at a second coding rate higher than the first coding rate (Figures 1 -3; tables 1 and 2 and paragraphs).

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0023 -0034).

Regarding claims 8 and 19, Kim teaches all the claimed limitations as recited in claims 1 and 12. Kim further teaches of wherein the computation of the second energy level is further a function of feedback from the remote location relating to wireless channel quality (paragraphs 0023 -0034).

Regarding claims 9 and 20, Kim teaches all the claimed limitations as recited in claims 1 and 12. Kim further teaches of wherein the computation of the second energy level is a function of the target transmission energy level and the first energy level adjusted by expected losses at the remote location relating to de-mapping the first signal (Figures 1 -3; tables 1 and 2 and paragraphs 0023 -0034).

Regarding claims 10 and 21, Kim teaches all the claimed limitations as recited in claims 1 and 12. Kim further teaches of wherein the computation of the second energy level comprises subtracting the adjusted first energy level from the target transmission energy level (Figures 1 -3; tables 1 and 2 and paragraphs 0035- 0042).

Regarding claims 11 and 22, Kim teaches all the claimed limitations as recited in claims 1 and 12. Kim further teaches of wherein the quality parameter comprises an error rate at the remote location (Figures 1 -3;tables 1 and 2 and paragraphs 0023 -0034).

Regarding claim 23, Kim teaches of a communications apparatus, comprising: means for transmitting to a remote location a first signal at a first energy level followed by a second signal at a second energy level (Figures 1 -3; tables 1 and 2 and paragraphs 0022-0026); determining means for determining a target transmission energy level as a function of a target quality parameter at the remote location (Figures 1 -3; tables 1 and 2 and paragraphs 0023 - 0042); and

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means for computing the second energy level as a function of the target transmission energy level and the first energy level (Figures 1 -3; tables 1 and 2 and paragraphs 0023 - 0042).

Regarding claim 24, Kim teaches all the claimed limitations as recited in claim 23. Kim further teaches of wherein the determination of the target transmission energy level by the determining means is further a function of the first and second signals (Figures 1 -3; tables 1 and 2 and paragraphs 0023 - 0034).

Regarding claim 25, Kim teaches all the claimed limitations as recited in claim 24. Kim further teaches of wherein the first and second signals each comprises a plurality of symbols, and wherein the determination of the target transmission energy level by the determining means is further a function of the total number of symbols in the first and second signals (Figures 1 - 3; and tables 1 and 2 and paragraphs 0023 - 0034).

Regarding claim 26, Kim teaches all the claimed limitations as recited in claim 23. Kim further teaches of wherein the first signal comprises a first subpacket from a data packet, (Figures 1 - 3; and tables 1 and 2 and paragraphs 0023 - 0034) and the second signal comprises a second subpacket from the same data packet (Figures 1 - 3; and tables 1 and 2 and paragraphs 0023 - 0034), and wherein the determination of the target transmission energy level by the determining means is further a function of a coding rate of the combined first and second subpackets (Figures 1 - 3; and tables 1 and 2 and paragraphs 0023 - 0034).

Regarding claim 27, Kim teaches all the claimed limitations as recited in claim 23. Kim further teaches of comprising means for encoding the first signal at a first coding rate and the second signal at a second coding rate higher than the first coding rate (Figures 1 - 3; and tables 1 and 2 and paragraphs 0023 - 0034).

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edan Orgad whose telephone number is 571-272-7884. The examiner can normally be reached on 8:00AM to 5:30PM with every other Friday off..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EDAN ORGAD

POTENT EXAMINER/TELECOMM.